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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/503,481	02/14/2000	Hirotaka Shiiyama	862.C1823	6661	
5514	7590 02/22/2006		EXAM	EXAMINER	
	CK CELLA HARPER	POON, KING Y			
	ELLER PLAZA , NY 10112		ART UNIT PAPER NUMBER		
	,		2624		
			DATE MAILED: 02/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/503,481	SHIIYAMA, HIROTAKA		
C	Office Action Summary	Examiner	Art Unit		
		King Y. Poon	2625		
	e MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address		
Period for Re	•	/ IO OCT TO EVOIDE - 140NT	VO) OD THIDTY (OO) DAYO		
WHICHEV - Extensions of after SIX (6) - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FOR REPLY (ER IS LONGER, FROM THE MAILING DAY of time may be available under the provisions of 37 CFR 1.13 MONTHS from the mailing date of this communication. If for reply is specified above, the maximum statutory period we ply within the set or extended period for reply will, by statute, ceived by the Office later than three months after the mailing int term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDON	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status					
1)⊠ Res _i	ponsive to communication(s) filed on 29 De	<u>ecember 2005</u> .			
2a)⊠ This	This action is FINAL . 2b) ☐ This action is non-final.				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
close	ed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.		
Disposition o	f Claims				
4)⊠ Clair	m(s) <u>See Continuation Sheet</u> is/are pendin	g in the application.			
4a) C	Of the above claim(s) <u>1-17</u> is/are withdrawn	from consideration.			
5)☐ Clair	m(s) is/are allowed.				
· <u> </u>	m(s) <u>See Continuation Sheet</u> is/are rejected	d.			
·	m(s) <u>38,40,42,44,46,48,102,104,106,108,1</u>				
8)∐ Clair	m(s) are subject to restriction and/or	r election requirement.			
Application P	apers				
9)∐ The s	specification is objected to by the Examine	r.			
10)⊠ The o	drawing(s) filed on 14 February 2000 is/are	e: a)⊠ accepted or b)□ object	ted to by the Examiner.		
Appli	cant may not request that any objection to the o	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).		
Repla	acement drawing sheet(s) including the correcti	ion is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).		
11) The c	path or declaration is objected to by the Ex	aminer. Note the attached Office	ce Action or form PTO-152.		
Priority under	r 35 U.S.C. § 119				
12)⊠ Ackn a)⊠ All	owledgment is made of a claim for foreign b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).		
1.🛛	Certified copies of the priority documents	s have been received.			
2.	Certified copies of the priority documents	s have been received in Applica	ation No		
3.	Copies of the certified copies of the prior	ity documents have been recei	ved in this National Stage		
	application from the International Bureau				
* See th	ne attached detailed Office action for a list of	of the certified copies not receive	ved.		
Attachment(s)					
	eferences Cited (PTO-892)	4) Interview Summa			
·	raftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail 5) Notice of Informal	Date Patent Application (PTO-152)		
)/Mail Date	6) Other:			

Application No. 09/503,481

Continuation Sheet (PTOL-326)

Continuation of Disposition of Claims: Claims pending in the application are 1-18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114 and 115.

Continuation of Disposition of Claims: Claims rejected are 18,20,22,24,26,28,30,32,34,36,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,114 and 115.

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 18, 20, 82, 84, 14, 115 rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al (US 5,805,733) in view of Hoang (US 6,014,183).

Regarding claims 18, 82: Wang teaches an image processing system (fig. 1) comprising: calculating means (program of fig. 4, column 4, lines 20-25, that calculates X square) for calculating a degree of similarity (values of X square, column 4, lines 20-25) from among a plurality of image frames of dynamic image data; determining means for determining scene-change frames based on the degree of similarity calculated by said calculating means (column 4, lines 20-25, also see column 4, lines 35-55); and dynamic image preparation means (program of fig., 5) for performing automatic editing and preparation (column 5, lines 45-50) of a digest dynamic image of the dynamic image data by merging (consolidate, column 5, lines 45-50) a specified duration of frames (duration of a sense, column 5, lines 55-67, column 5, lines 30-35) having a low degree of similarity (degree of similarity is selected by user by adjusting threshold, column 5, lines 60-67) with an immediately preceding frame or some preceding frames on receipt of instructions to prepare a dynamic digest (the degree of the similarity would determined dynamic or quiet, column 5, lines 65-67, column 6, lines 1-5).

Wang does not teach the prepared digest dynamic image has a length according to a length according to a length designated by a user.

Hoang, in the same area of merging scenes (column 10, lines 10-20), teaches that before storing, a user is allowed to set a length (time code, column 10, lines 13-15, column 2, lines 1-3) of a scene and the frames are automatically edited and merged such that a digest is created that has a length according to a length designated by a user (the merging and editing is performed after the user modified the time code/length of the scene.

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Wang's dynamic image preparation means to include automatically editing and merging frames of the created scene such that a digest is created that has a length according to a length designated by a user.

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Wang's dynamic image preparation means by the teaching of Hoang because it would have allowed users to control the system such that the digest created is what a user desired; and it would have prevented a machine from totally take over a person-it is always nice to have a user to be able to control a machine functions according the user's wishes.

Regarding claims 20, 84: Wang teaches an image processing system (fig. 1) comprising: calculating means (program of fig. 4, column 4, lines 20-25, that calculates X square) for calculating a degree of similarity (values of X square, column 4, lines 20-25) from among a plurality of image frames of dynamic image data; determining means

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for determining scene-change frames based on the degree of similarity calculated by said calculating means (column 4, lines 20-25, also see column 4, lines 35-55); and dynamic image means (program of fig., 5) for performing automatic editing and preparation (column 5, lines 45-50) of a digest dynamic image of the dynamic image data by merging (consolidate, column 5, lines 45-50) a specified duration of frames (duration of a sense, column 5, lines 55-67, column 5, lines 30-35) having a low degree of similarity (degree of similarity is selected by user by adjusting threshold, column 5, lines 60-67) with an immediately preceding frame or some preceding frames on receipt of instructions to prepare a dynamic digest (the degree of the similarity would determined dynamic or quiet, column 5, lines 65-67, column 6, lines 1-5).

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Regarding claims 114, 115: Wang teaches a recording medium recording program code (117, fig. 1) for the process and system discussed with claims 18, 20.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 22, 24, 26, 28, 30, 32, 34, 36, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 86, 88, 90, 92, 94, 96, 98, 100 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. as applied to claims 18, 20 above, and further in view of Hanpachern (US 4,319,286).

Regarding claims 22, 24, 26, 28, 86, 88, 90, 92: Saito does not directly disclose detection means and processing means for a blank frame scenes/frames.

Hanpachern discloses detection means, which detect a blank scene; in Hanpachern's system, integrated circuit U1 is used to detect blank frames (col. 4 lines

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23-27). Hanpachern also discloses exception-processing means, in which the frame immediately preceding a blank scene is recorded, and the frame immediately following the blank scene is the next frame to be recorded; in Hanpachern's system, integrated circuit U2 and transistor Q9 perform this function (col. 4 lines 50-63).

Wang and Hanpachern are compatible because they are from the same field of endeavor, namely video summary.

Therefore it would have been obvious to one of ordinary skill in the art to add

Hanpachern's method of detecting a blank scene, and editing the scene from the digest
to Saito and Edgar's system.

The motivation for doing so would have been to eliminate frames with no relevant information from consideration and therefore to speed up processing and decrease the time the user needs to find the information he or she is looking for.

Note: The initial frame and the last frame would have been detected in Wang as scene change frame because the similarity of those frames and other frames of nearby scenes would be large according the 409, fig. 4, Wang. Also see beginning and ending frames of the scenes, column 4, lines 1-5.

Regarding claims 30, 32, 94, 96: Wang teaches wherein when a time duration for each scene-change frame of two scenes in close proximity (nearby, column 5, line 47) is less than the specified duration, frame information from a scene-change frame of the first scene and frame information through a frame from the scene-change frame of the second scene are treated as the result of merging of the scene-change frames of the two scenes into one scene whose duration is equal to the specified duration

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(inherently properties: duration of a frame is less than duration of a scene. The specific duration of claims 30-20 is the duration of two scenes being merged into one scene (scene time 519, column 6, lines 14-15, also see column 5, lines 60-65, 10-25, Wang).

All individual frames including the scene change frame is less than the specific duration.

Regarding claims 34, 36, 98, 100: Wang teaches wherein when the duration of the scene-change frame of the second scene to be merged falls within a specified duration of the scene-change frame of the first scene, all the frame information of the scene-change frame of the second scene are merged with the scene-change frame of the first scene (inherent properties of consolidate; also see all the frame numbers are merged as related).

Regarding claims 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80: Wang teaches to replay the digest (213, fig. 2). Wang does not teaches to save the digest as a file and to discard the data.

Wang teaches a system to allow users to interact with the image processing system of Wang (column 10-20). Wang also teaches it is well-known in the art to have a user to select and specified a digest created by the user and to discard the digest data (column 1, lines 32-50).

Therefore, it would have been obvious to a person with ordinary skill in the art to have modified the summarizing system of Wang such that a user would decided to save or discard the data created by the computer.

It would have allowed user to change and adjust the digest using a higher or lower threshold (column 5, lines 65-67) to generate a desired (for the user) digest.

Allowable Subject Matter

5. Claims 38, 40, 42, 44, 46, 48, 102, 104, 106, 108, 110, 112 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments filed 12/29/2005 have been fully considered but they are not persuasive.

With respect to applicant's argument that neither Wang not Hanpachern teaches an instruction for a digest such that the length of the prepared digest is according to the designated length, has been considered.

In reply: Wang does not teach the prepared digest dynamic image has a length according to a length according to a length designated by a user.

Hoang, in the same area of merging scenes (column 10, lines 10-20), teaches that before storing, a user is allowed to set a length (time code, column 10, lines 13-15, column 2, lines 1-3) of a scene and the frames are automatically edited and merged such that a digest is created that has a length according to a length designated by a user (the merging and editing is performed after the user modified the time code/length of the scene.

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It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Wang's dynamic image preparation means by the teaching of Hoang because it would have allowed users to control the system such that the digest created is what a user desired; and it would have prevented a machine from totally take over a person-it is always nice to have a user to be able to control a machine functions according the user's wishes.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to King Y. Poon whose telephone number is 571-272-7440. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 19, 2006

KING Y. POON PRIMARY EXAMINER